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## PUBLICATIONS & ARTICLES

**Categories**  
General | AIMS | ITS | IVI | NDGPS | RuralITS  
Strategic Work Zone Analysis | Travel Management |  
Weather

## General

Fact Sheet: Office of Operations R&D (FHWA-HRT-04-120)

Inform Web Site Shares Low-Cost ITS Solutions (Public Roads, Jan/Feb 2003)

### Innovative Traffic Control Practices in Europe (September/October 1999)

by: H. Gene Hawkins Jr., W. Scott Wainwright, and Samuel C. Tignor

Safety & Operations Electronic Reading Room - 1999  
A compilation of publications that document some of FHWA's recent research and accomplishments in highway safety and operations.

Technology for Work and Travel  
(Public Roads, Spring 1996)

by William Zaccagnino  
FHWA is using available technology to ensure a future with a high-tech transportation network that meets our transportation needs, supports our national defense, provides economic growth, and adds to the quality of life in the United States well into the 21st century.

## Advanced Traffic Management Systems

ATMS\_Human\_Factors\_Experiments\_Produce\_Design  
Guidelines  
(Public Roads, Spring 1997)

### More Information



**EHWA's Office of Operations**

FHWA's Office of S

**Innovations Deserv  
Exploratory Analysis  
(IDEA) Program**

**Institute of Traffic  
Engineers - Advanced  
Transportation Con  
(ATC)**

## ITS Deployment An System (IDAS)

**McTrans - Center for Microcomputers in Transportation**

PC-TRANS - Kansas  
University Transport  
Center

costs.

WestTrack: Putting ITS to Work  
(Public Roads, July/August 1997)  
by Colin Ashmore and Terry M. Mitchell  
The WestTrack Driverless Control System, which controls three driverless heavy trucks circling the WestTrack course at 65 km/h, is addressing issues that are very similar to the real-world requirements of an automated highway system.

#### Intelligent Vehicle Initiative (IVI)

The Customer-Driven Development of Human Factors Design Guidelines  
(Public Roads, January/February 2000)  
by Christopher A. Monk and Joseph Moyer  
The Federal Highway Administration (FHWA) undertook a six-year research program focused on issues related to in-vehicle information displays in order to provide design assistance to advanced in-vehicle systems engineers.

Highway Effects on Vehicle Performance  
(FHWA-RD-00-164, January 2001)

Safe Plowing - Applying Intelligent Vehicle Technology  
(Public Roads, January/February 2001)  
by Robert A. Feris, Shaned Rowshan, and Cathy Frye  
The California and Minnesota departments of transportation use the Global Positioning System, a geo-spatial database, radar, and intelligent vehicle technologies to enable snowplow operators to "see" snow-covered roads and obstacles.

#### Rural ITS

The ARTS Compendium: FHWA's Electronic Rural ITS Project Tracking System  
(Public Roads, December 1997)  
by Galina Belfor, Lee-Jane Chen, Charles Liu, Paul Pisano, and Eileen Singleton  
FHWA created the Advanced Rural Transportation System (ARTS) Compendium as a tool to track current technology applications related to rural areas and to help identify areas in need of further research and field testing.

Collaborative Research on Road Weather Observations and Predictions by Universities, State DOTs and National Weather Service Forecast Offices, FHWA-HRT-04-109, September 2004

#### Strategic Work Zone Analysis

A QuickZone Tailor-Made for Maryland  
(Focus, March 2001)

QuickZone  
(Public Roads, July/August 2001)  
By Deborah Curtis  
QuickZone is software that will estimate traveler delay due to

work zones, and by doing so, it will provide a more complete and realistic view of the total construction costs.

Strategic Workzone Analysis Tools  
(Public Roads, November/December 2000)  
by John Harding

The SWAT program addresses work-zone factors and stresses the importance of accounting for work-zone influences when making transportation-improvement decisions.

#### Travel Management

Traffic Analysis Toolbox, Volume I: Traffic Analysis Tools Primer, June 2004, FHWA-HRT-04-038

Traffic Analysis Toolbox, Volume II: Decision Support Methodology for Selecting Traffic Analysis Tools, June 2004, FHWA-HRT-04-039

Traffic Analysis Toolbox, Volume III: Guidelines for Applying Traffic Microsimulation Modeling Software, June 2004, FHWA-HRT-04-040

Software that Really Moves (TSIS)  
(R&T Transporter, August 2001, PDF File - 381 KB)

Slaying in the Loop: The Search for Improved Reliability of Traffic Sensing Systems Through Smart Test Instruments  
(Public Roads, September/October 1998)  
by David Gibson, Milton K. (Pete) Mills, and Doug Rekenhater Jr.

Traffic Control With a Twist  
(R&T Transporter, August 2001, PDF File - 381 KB)

Traffic Flow Theory: A State of the Art Report  
The Revised Monograph

Traffic Flow Theory  
(Public Roads, January/February 1999)  
by Henry Lieu

#### Weather

Collaborative Research on Road Weather Observations and Predictions by Universities, State DOTs and National Weather Service Forecast Offices, September 2004, FHWA-HRT-04-109

Identifying and Assessing Key Weather-Related Parameters and Their Impacts on Traffic Operations Using Simulation, FHWA-HRT-04-131, September 2004

Road Weather Management Summary  
FHWA-HRT-04-101

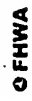
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